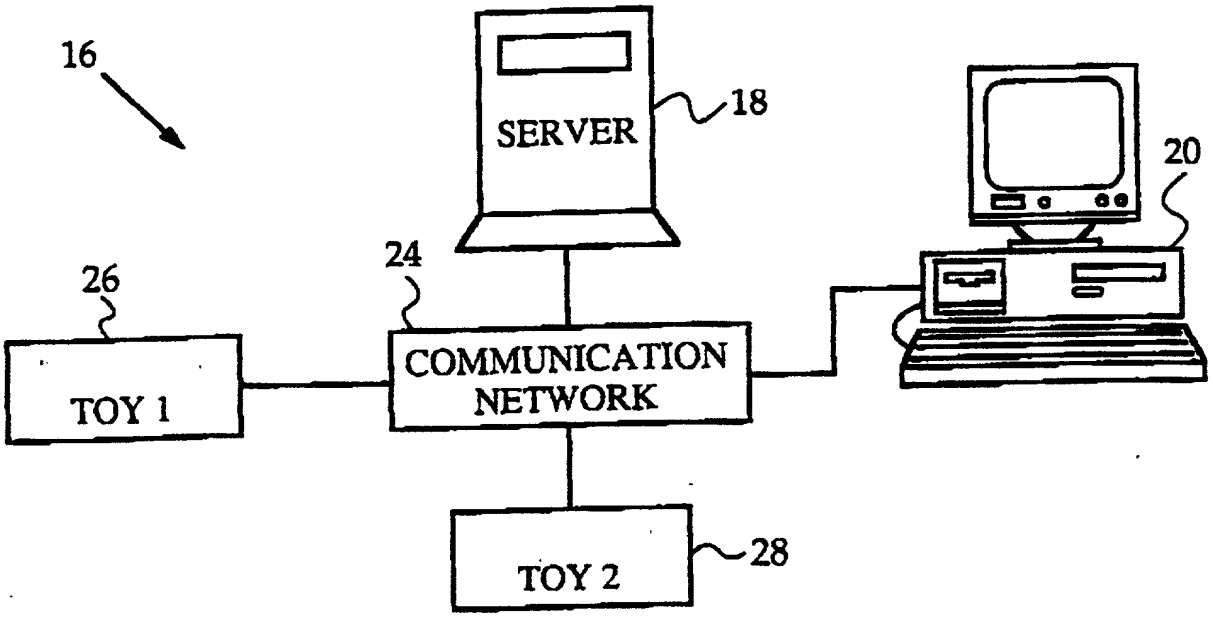
16
SERVER
18
20
24
26
TOY 1
COMMUNICATION NETWORK
TOY 2
28

FIG. 1

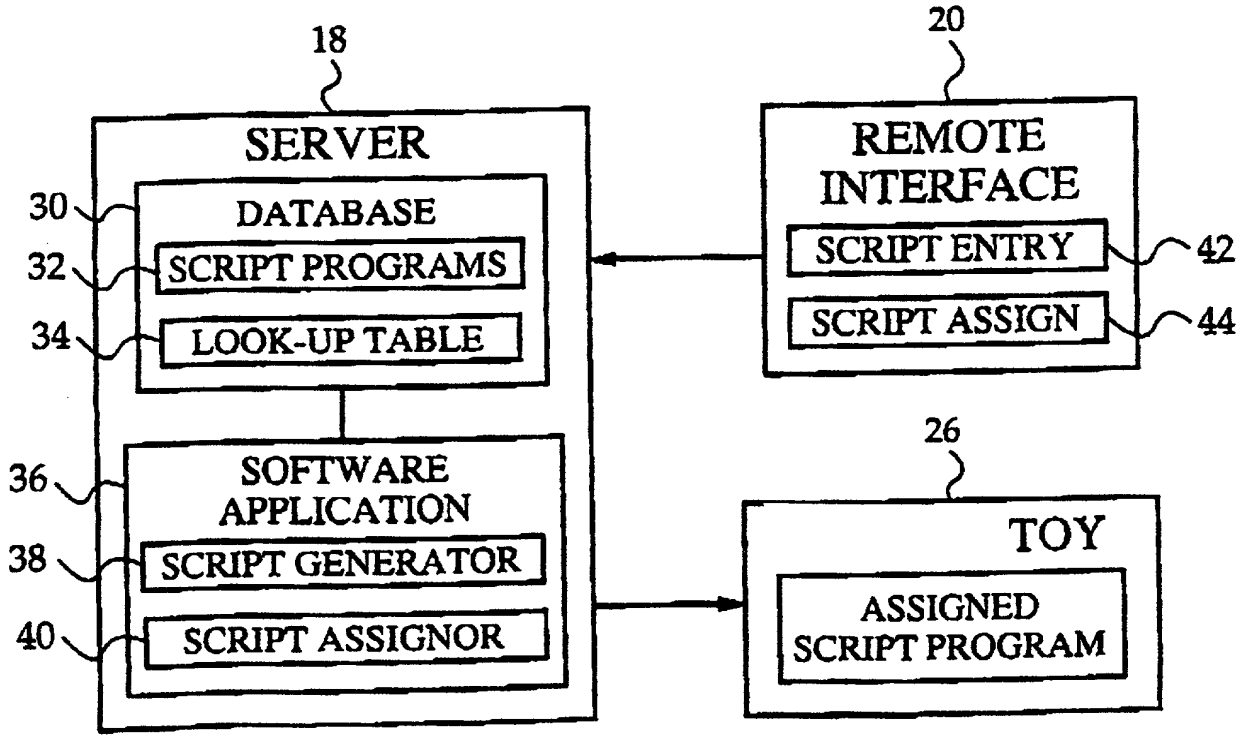
18
SERVER
30
DATABASE
32
SCRIPT PROGRAMS
34
LOOK-UP TABLE
36
SOFTWARE APPLICATION
38
SCRIPT GENERATOR
40
SCRIPT ASSIGNOR
20
REMOTE INTERFACE
SCRIPT ENTRY
42
SCRIPT ASSIGN
44
26
TOY
ASSIGNED SCRIPT PROGRAM

FIG. 2

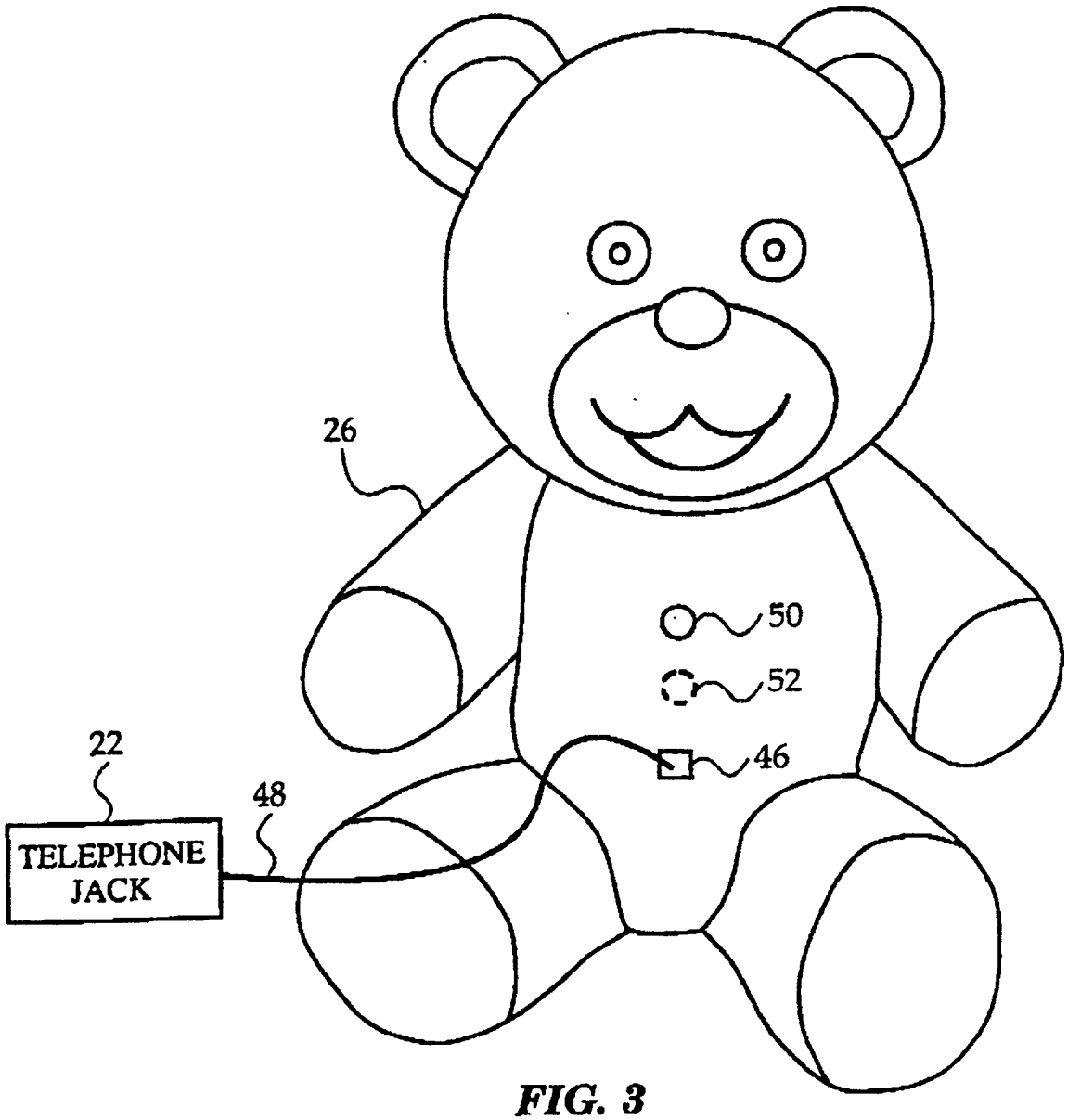

FIG. 3

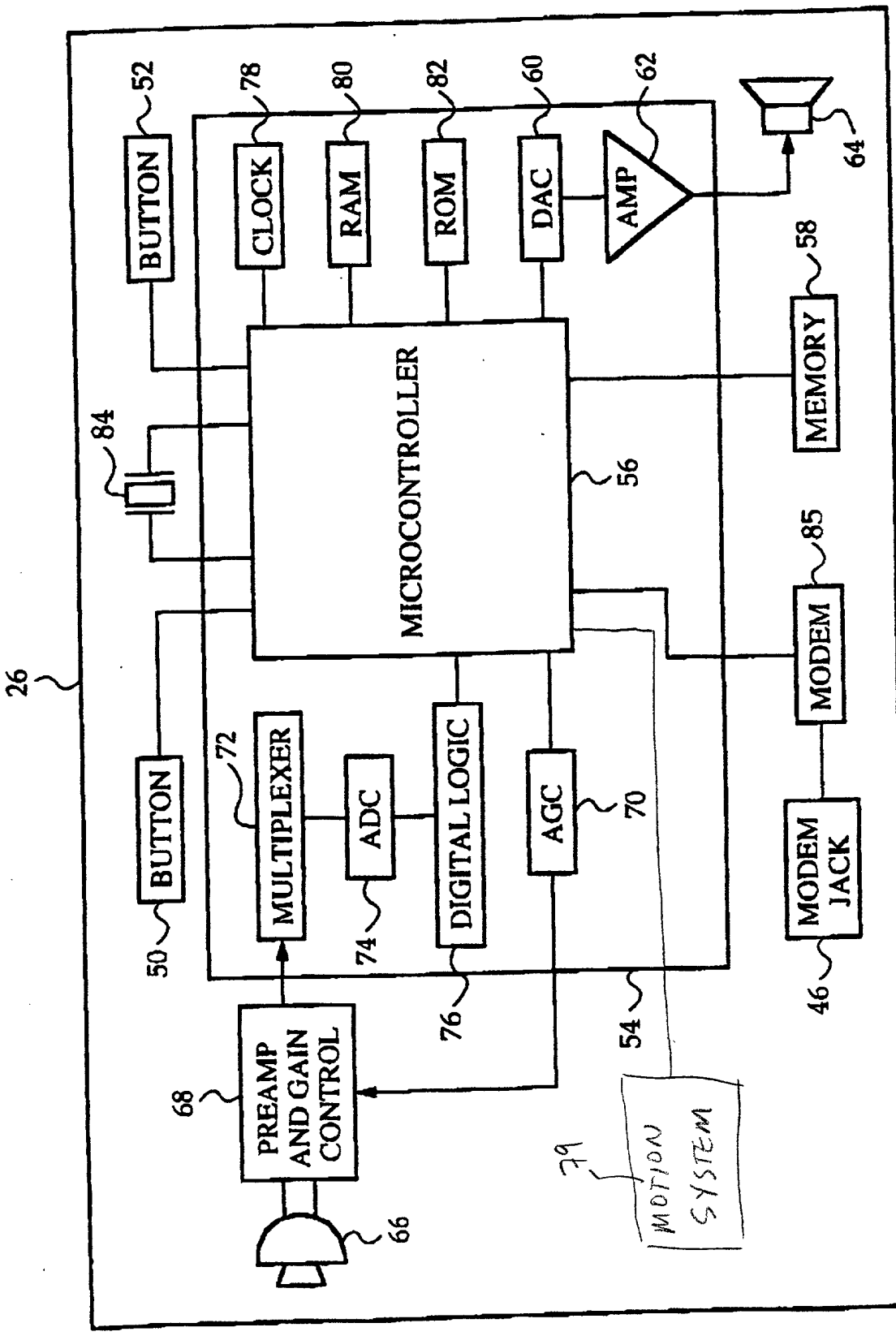
26
BUTTON
52
CLOCK
78
RAM
80
ROM
82
DAC
60
AMP
62
64
MICROCONTROLLER
56
MEMORY
58
84
BUTTON
50
MULTIPLEXER
72
ADC
74
DIGITAL LOGIC
76
AGC
70
MODEM
85
MODEM JACK
46
PREAMP AND GAIN CONTROL
68
66
54
79
MOTION SYSTEM

FIG. 4

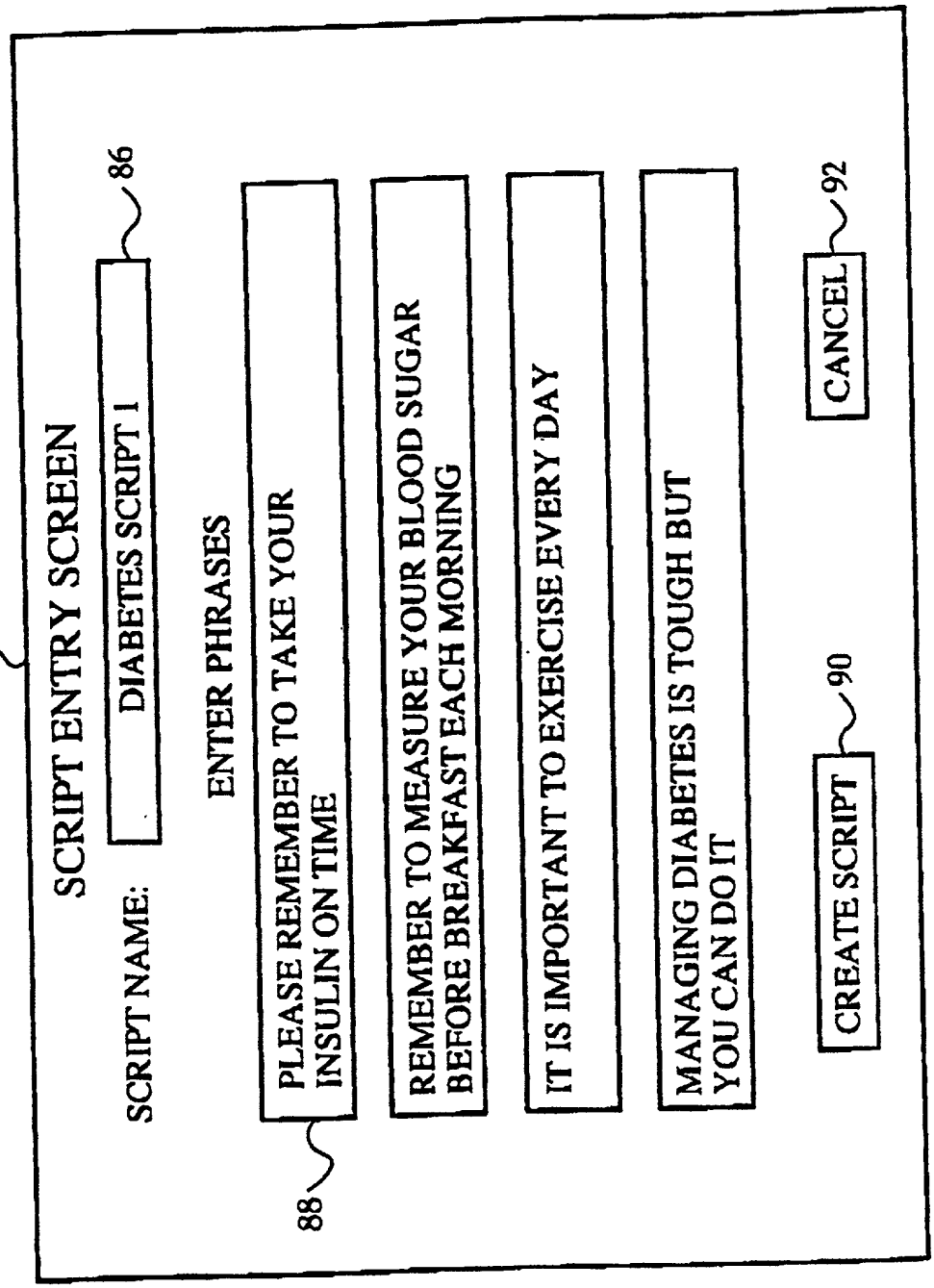
42
SCRIPT ENTRY SCREEN
SCRIPT NAME:
DIABETES SCRIPT 1
86
ENTER PHRASES
PLEASE REMEMBER TO TAKE YOUR INSULIN ON TIME
88
REMEMBER TO MEASURE YOUR BLOOD SUGAR BEFORE BREAKFAST EACH MORNING
IT IS IMPORTANT TO EXERCISE EVERY DAY
MANAGING DIABETES IS TOUGH BUT YOU CAN DO IT
CREATE SCRIPT
90
CANCEL
92

FIG. 5

SPEAK: SAY OK WHEN YOU ARE READY {LF}

RECOGNIZE: OK {LF}

SPEAK: PLEASE REMEMBER TO TAKE YOUR
INSULIN ON TIME {LF}

DELAY: 3 {LF}

SPEAK: REMEMBER TO MEASURE YOUR BLOOD SUGAR
BEFORE BREAKFAST EACH MORNING {LF}

DELAY: 3 {LF}

SPEAK: IT IS IMPORTANT TO EXERCISE EVERY DAY {LF}

DELAY: 3 {LF}

SPEAK: MANAGING DIABETES IS TOUGH BUT
YOU CAN DO IT {LF}

DELAY: 3 {LF}

SPEAK: THAT'S ALL THE NEWS FOR NOW {LF}

DELAY: 1{LF}

SPEAK: CONNECT ME TO THE TELEPHONE LINE
TO GET NEW MESSAGES {LF}

{EOF}

FIG. 6

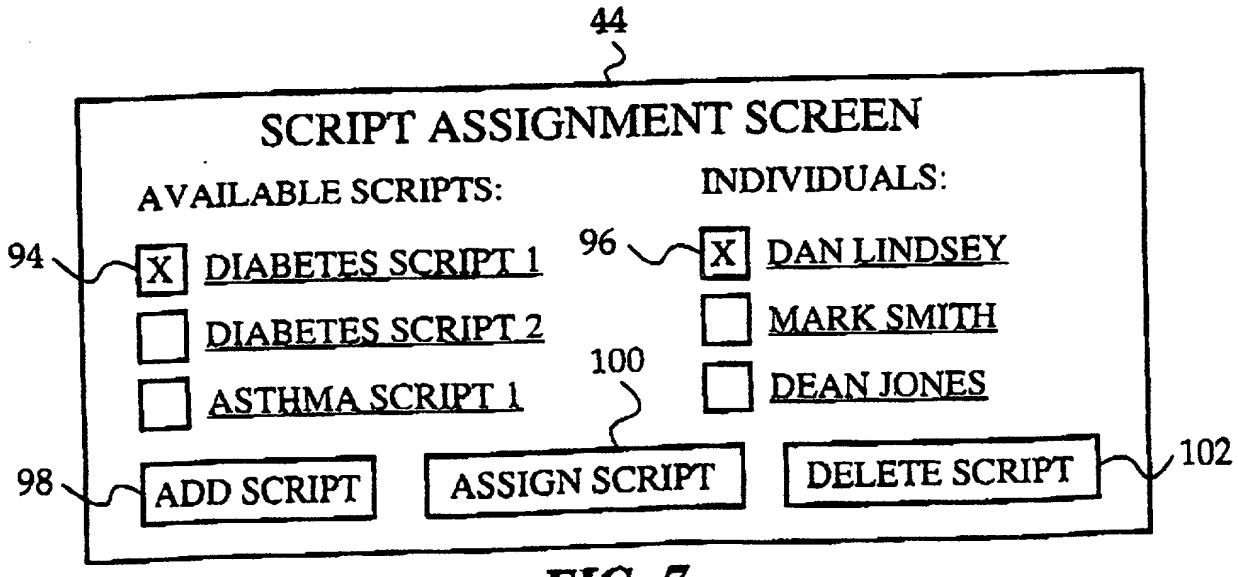

FIG. 7

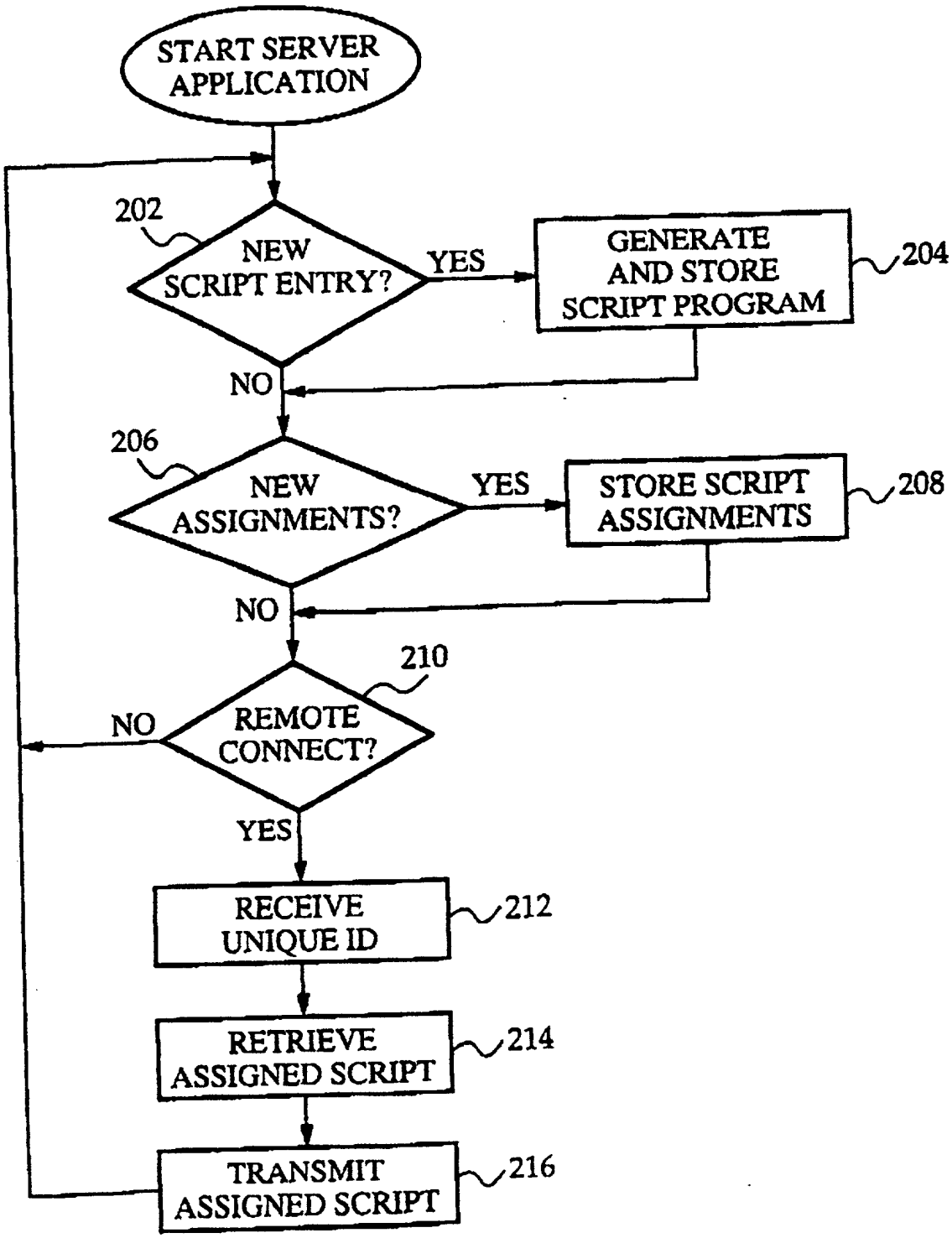
START SERVER APPLICATION
202
NEW SCRIPT ENTRY?
YES
GENERATE AND STORE SCRIPT PROGRAM
204
NO
206
NEW ASSIGNMENTS?
YES
STORE SCRIPT ASSIGNMENTS
208
NO
210
REMOTE CONNECT?
NO
YES
RECEIVE UNIQUE ID
212
RETRIEVE ASSIGNED SCRIPT
214
TRANSMIT ASSIGNED SCRIPT
216

FIG. 8

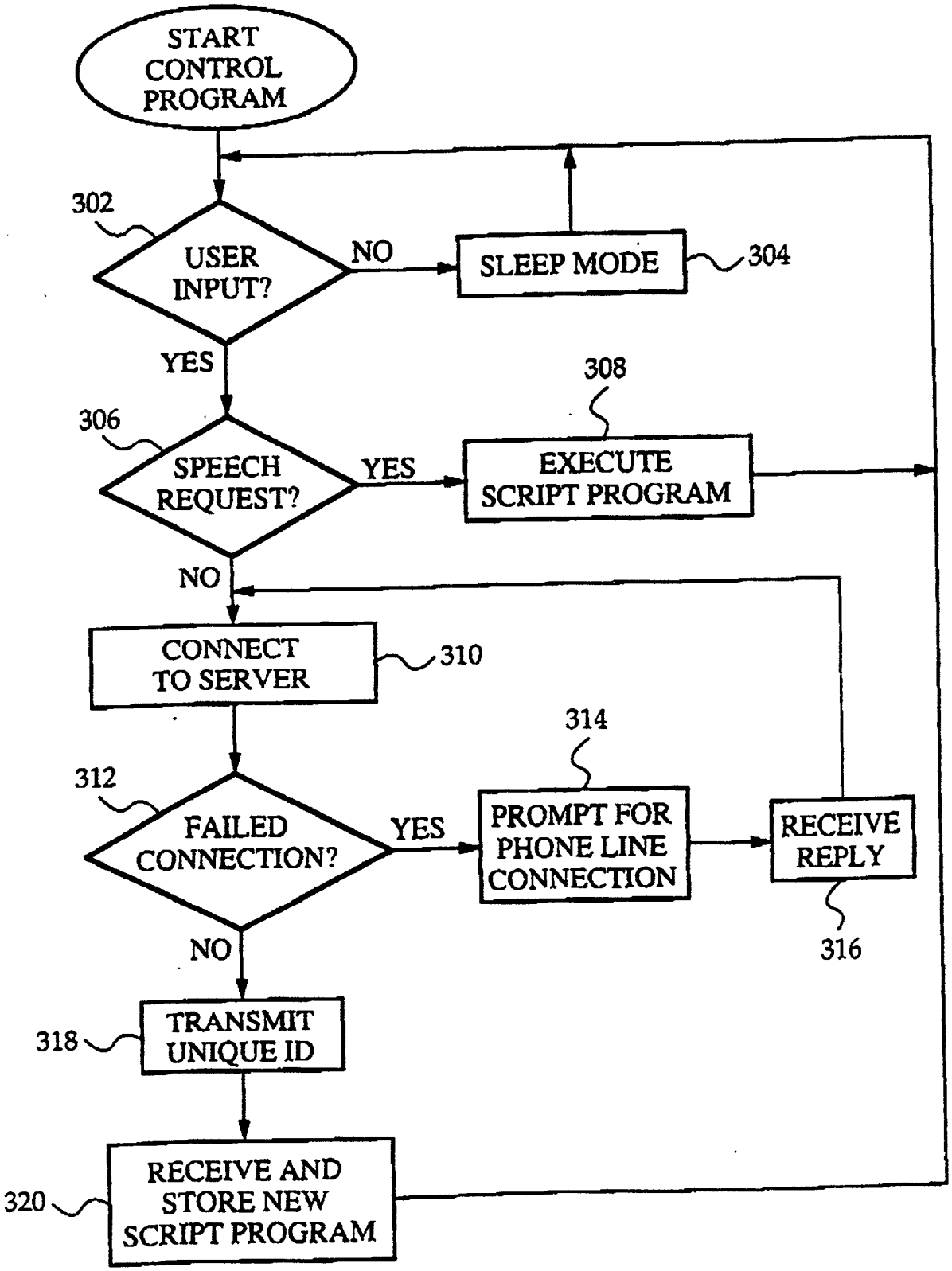
START CONTROL PROGRAM
302
USER INPUT?
NO
SLEEP MODE
304
YES
308
306
SPEECH REQUEST?
YES
EXECUTE SCRIPT PROGRAM
NO
CONNECT TO SERVER
310
314
312
FAILED CONNECTION?
YES
PROMPT FOR PHONE LINE CONNECTION
RECEIVE REPLY
316
NO
318
TRANSMIT UNIQUE ID
320
RECEIVE AND STORE NEW SCRIPT PROGRAM

FIG. 9

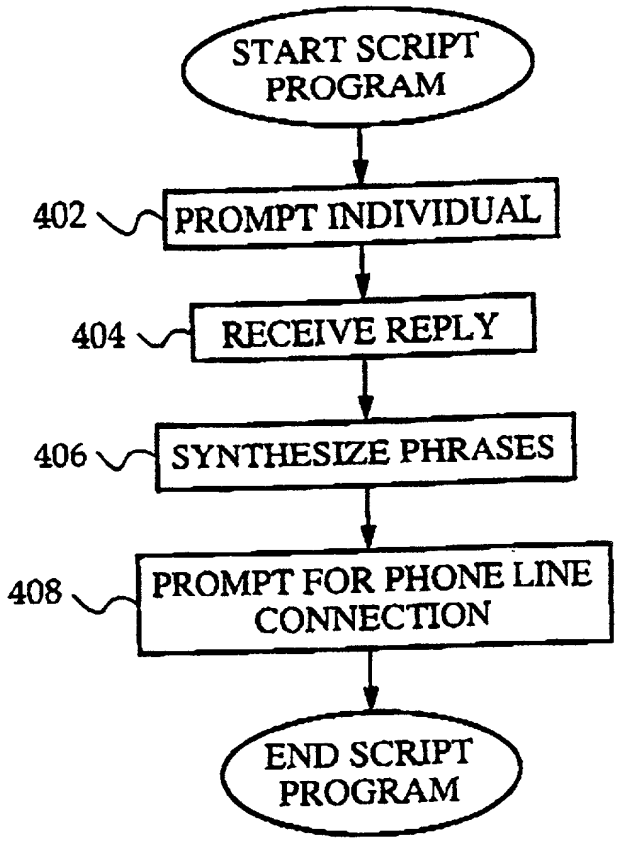
START SCRIPT PROGRAM
402
PROMPT INDIVIDUAL
404
RECEIVE REPLY
406
SYNTHESIZE PHRASES
408
PROMPT FOR PHONE LINE CONNECTION
END SCRIPT PROGRAM

FIG. 10

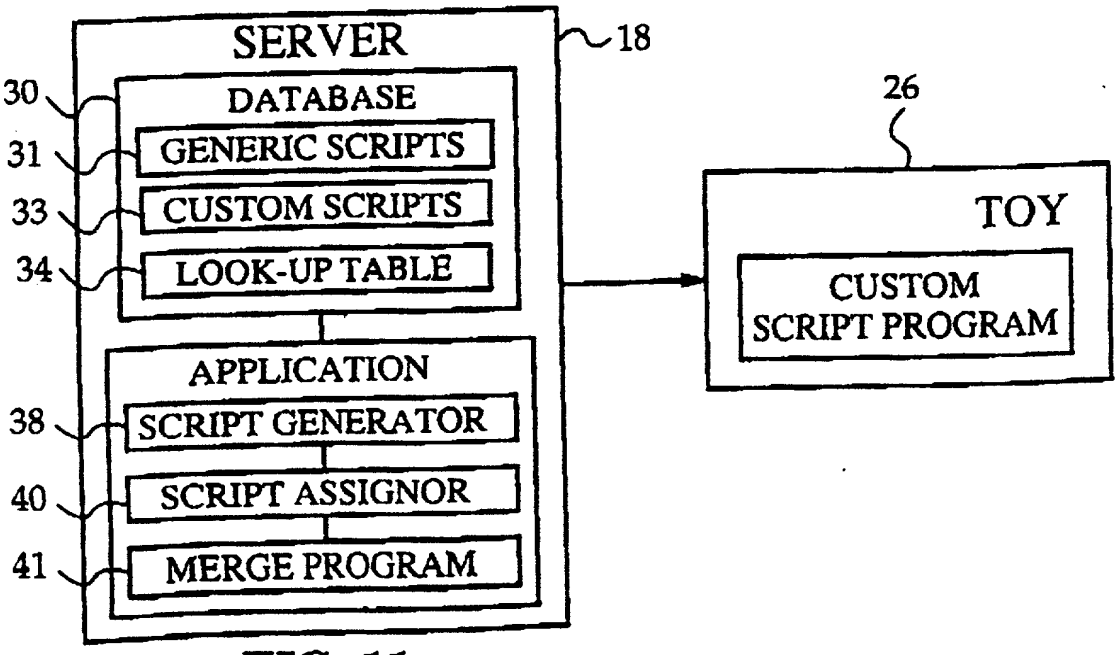
SERVER
18
30
DATABASE
31
GENERIC SCRIPTS
33
CUSTOM SCRIPTS
34
LOOK-UP TABLE
APPLICATION
38
SCRIPT GENERATOR
40
SCRIPT ASSIGNOR
41
MERGE PROGRAM
26
TOY
CUSTOM SCRIPT PROGRAM

FIG. 11

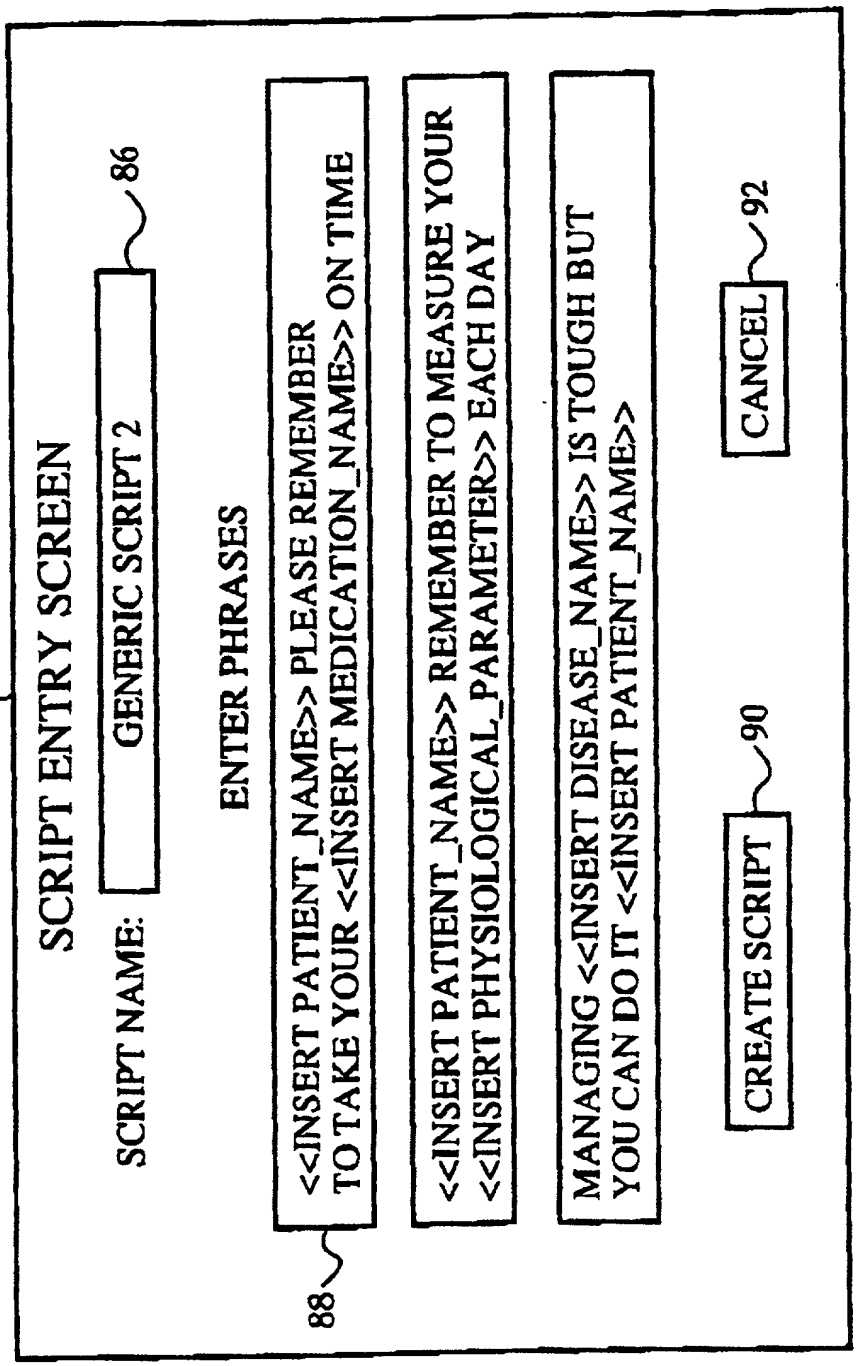
42
SCRIPT ENTRY SCREEN
SCRIPT NAME:
GENERIC SCRIPT 2
86
ENTER PHRASES
<<INSERT PATIENT_NAME>> PLEASE REMEMBER TO TAKE YOUR <<INSERT MEDICATION_NAME>> ON TIME
88
<<INSERT PATIENT_NAME>> REMEMBER TO MEASURE YOUR <<INSERT PHYSIOLOGICAL_PARAMETER>> EACH DAY
MANAGING <<INSERT DISEASE_NAME>> IS TOUGH BUT YOU CAN DO IT <<INSERT PATIENT_NAME>>
CREATE SCRIPT
90
CANCEL
92

FIG. 12

SPEAK: SAY OK WHEN YOU ARE READY {LF}

RECOGNIZE: OK {LF}

SPEAK: <<INSERT PATIENT_NAME>> PLEASE REMEMBER TO TAKE YOUR <<INSERT MEDICATION_NAME>> ON TIME {LF}

DELAY: 3 {LF}

SPEAK: <<INSERT PATIENT_NAME>> REMEMBER TO MEASURE YOUR <<INSERT MEASURED_PARAMETER>> EACH DAY {LF}

DELAY: 3 {LF}

SPEAK: MANAGING <<INSERT DISEASE_NAME>> IS TOUGH BUT YOU CAN DO IT <<INSERT PATIENT_NAME>> {LF}

DELAY: 3 {LF}

SPEAK: THAT'S ALL THE NEWS FOR NOW {LF}

DELAY: 1{LF}

SPEAK: CONNECT ME TO THE TELEPHONE LINE TO GET NEW MESSAGES {LF}

{EOF}

FIG. 13

SPEAK: SAY OK WHEN YOU ARE READY {LF}

RECOGNIZE: OK {LF}

SPEAK: DAN PLEASE REMEMBER TO TAKE YOUR INSULIN ON TIME {LF}

DELAY: 3 {LF}

SPEAK: DAN REMEMBER TO MEASURE YOUR BLOOD SUGAR EACH DAY {LF}

DELAY: 3 {LF}

SPEAK: MANAGING DIABETES IS TOUGH BUT YOU CAN DO IT DAN {LF}

DELAY: 3 {LF}

SPEAK: THAT'S ALL THE NEWS FOR NOW {LF}

DELAY: 1 {LF}

SPEAK: CONNECT ME TO THE TELEPHONE LINE TO GET NEW MESSAGES {LF}

{EOF}

FIG. 14

Docket No. 5050-1

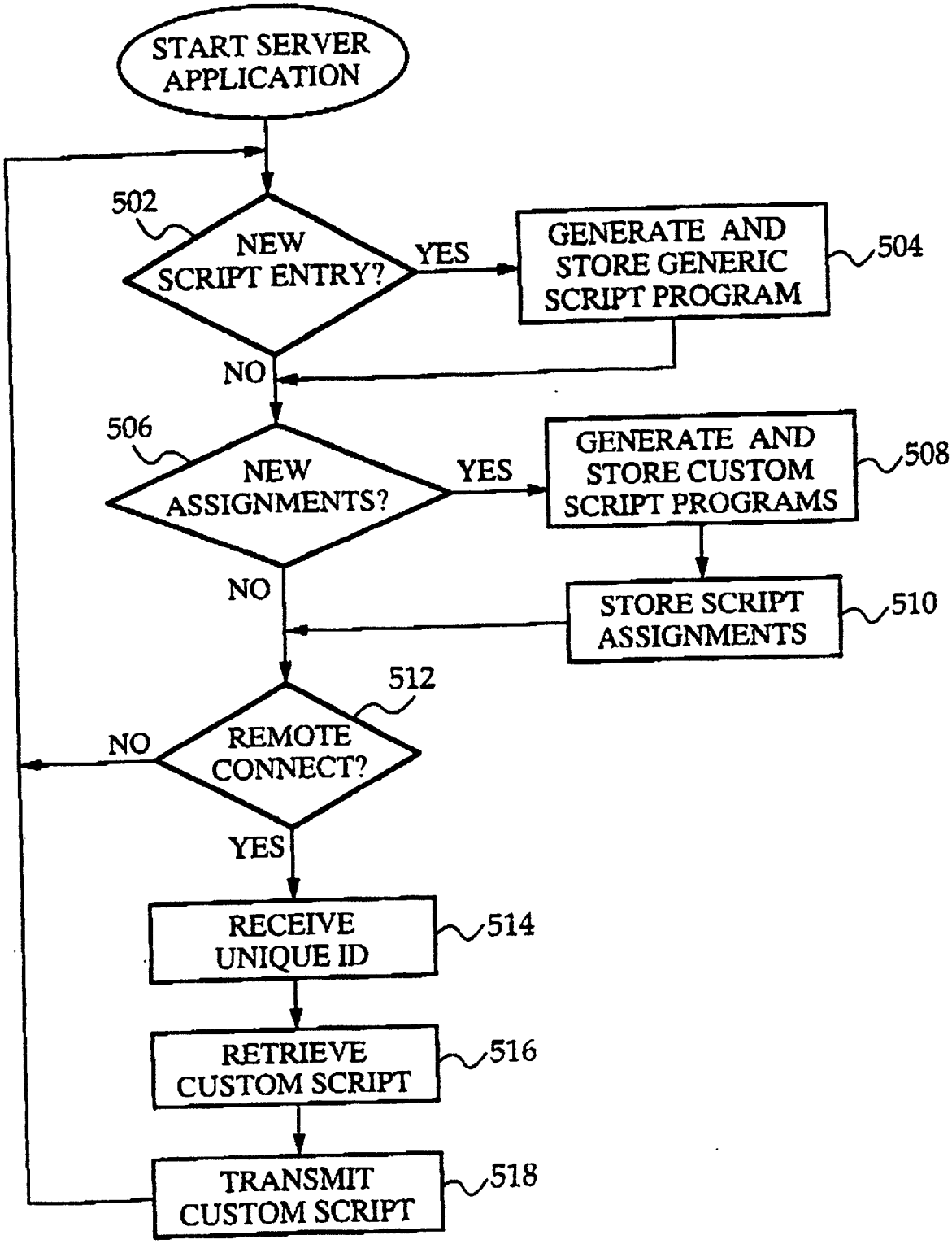
START SERVER APPLICATION
502
NEW SCRIPT ENTRY?
YES
GENERATE AND STORE GENERIC SCRIPT PROGRAM
504
NO
506
NEW ASSIGNMENTS?
YES
GENERATE AND STORE CUSTOM SCRIPT PROGRAMS
508
NO
STORE SCRIPT ASSIGNMENTS
510
512
REMOTE CONNECT?
NO
YES
RECEIVE UNIQUE ID
514
RETRIEVE CUSTOM SCRIPT
516
TRANSMIT CUSTOM SCRIPT
518

FIG. 15

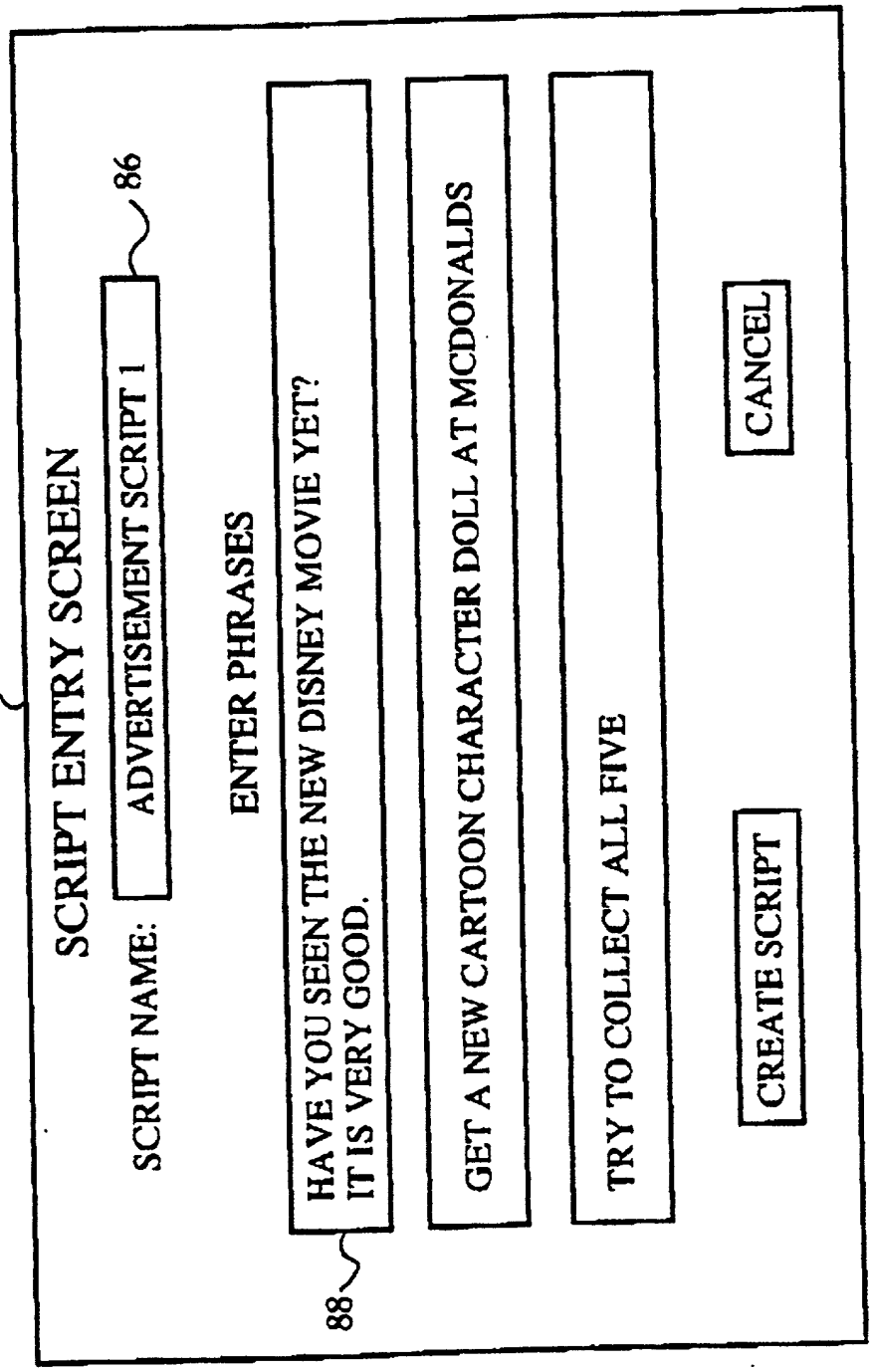
42
SCRIPT ENTRY SCREEN
SCRIPT NAME:
ADVERTISEMENT SCRIPT 1
86
ENTER PHRASES
88
HAVE YOU SEEN THE NEW DISNEY MOVIE YET? IT IS VERY GOOD.
GET A NEW CARTOON CHARACTER DOLL AT MCDONALDS
TRY TO COLLECT ALL FIVE
CREATE SCRIPT
CANCEL

FIG. 16

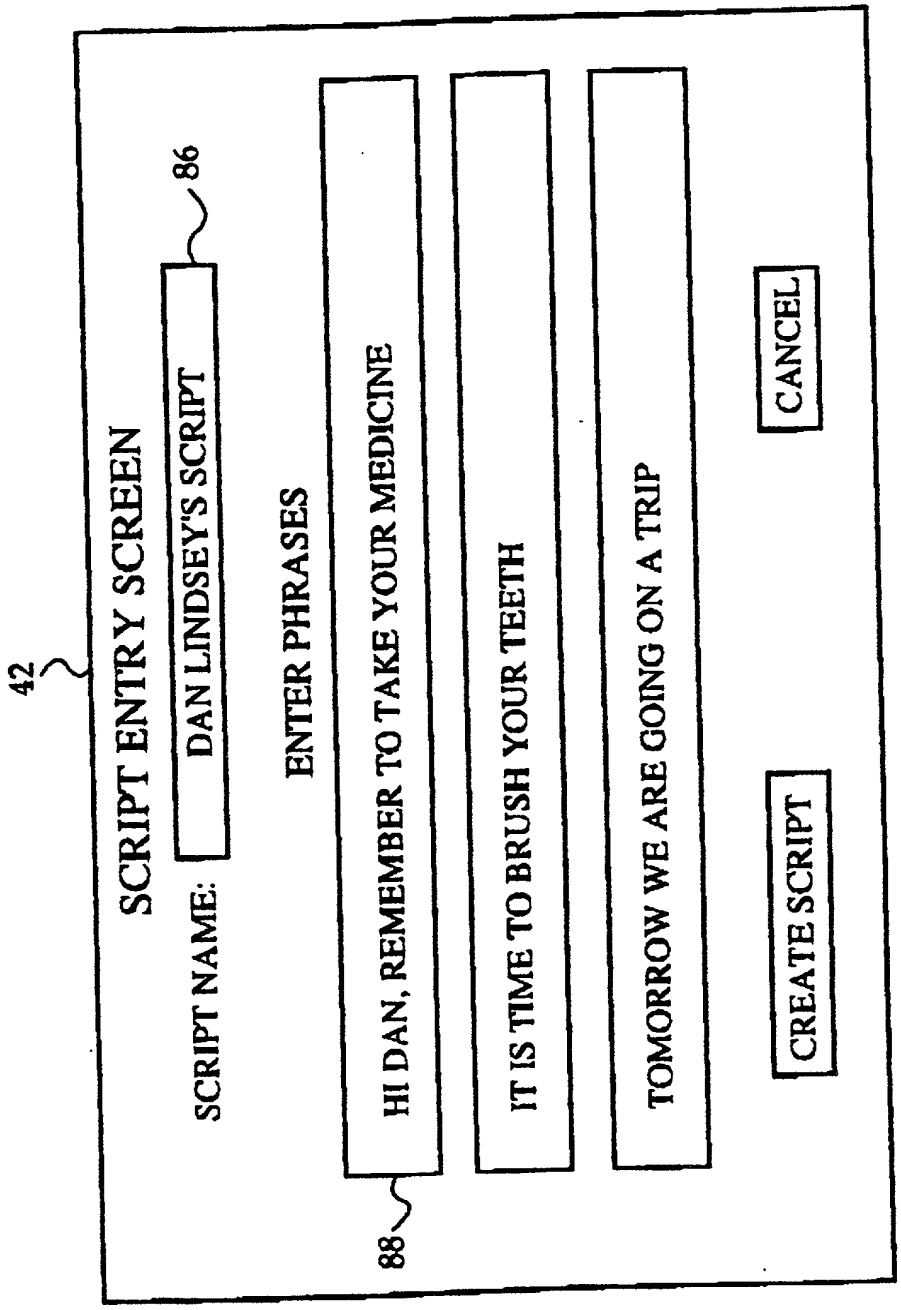
42
SCRIPT ENTRY SCREEN
SCRIPT NAME:
DAN LINDSEY'S SCRIPT
86
ENTER PHRASES
HI DAN, REMEMBER TO TAKE YOUR MEDICINE
IT IS TIME TO BRUSH YOUR TEETH
TOMORROW WE ARE GOING ON A TRIP
88
CREATE SCRIPT
CANCEL

FIG. 17